

CLAIMS

- 1 1. A system for detecting and disabling or killing harmful airborne biota,
2 particularly insects, comprising:
3 at least one energy-transmitting transmitter positioned to emit a beam
4 of detection energy over or around an area to be protected from said harmful
5 airborne biota,
6 a receiver of a return signal of said detection energy from said harmful
7 airborne biota,
8 one or more data processors for processing said return signal and
9 identifying said airborne biota, ,
10 a harmful airborne biota killing or disabling system responsive to said one or
11 more data processors.
- 1 2. A system as set forth in claim 1 wherein said energy-transmitting
2 transmitter comprises a radar beam.
- 1 3. A system as set forth in claim 1 wherein said harmful airborne biota killing
2 or disabling system comprises a laser beam.
- 1 4. A system as set forth in claim 1 wherein said harmful airborne biota killing
2 or disabling system comprises a range-limited beam of energy.

1 5. A system as set forth in claim 4 wherein said range-limited beam of energy
2 further comprises an energy beam that is attenuated by atmosphere.

1 6. A system as set forth in claim 4 wherein said range-limited beam of energy
2 further comprises focusing said range-limited beam of energy.

1 7. A system as set forth in claim 4 further comprising a backstop for said
2 range-limited beam of energy.

1 8. A system as set forth in claim 4 wherein said range-limited beam of energy.
2 is tilted upward at a relatively shallow angle.

1 9. A system as set forth in claim 8 wherein said backstop is selectively
2 positioned to block an upwardly tilted said range-limited beam of energy from
3 an elevated feature so that said range-limited beam of energy cannot impinge
4 on said elevated feature.

1 10. A system as set forth in claim 1 wherein said energy transmitting
2 transmitter, said receiver and said a harmful airborne biota killing or disabling
3 system are mounted on an elevated structure above said area to be protected.

1 11. A system as set forth in claim 10 wherein at least one said elevated
2 structure is positioned within said area to be protected.

- 1 12. A system as set forth in claim 10 further comprising a plurality of said
- 2 elevated structure positioned around said area to be protected.